

# CURRICULUM VITAE

Jonas Åkeson  
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## 1. UNDERGRADUATE EXAMINATIONS

**MD certificate.** *Lund University.* Lund 11<sup>th</sup> June 1981.

**Master exam in Emergency Medicine** (60 ECTS). *Lund University.* Lund 30<sup>th</sup> September 1982.

## 2. PHD EXAMINATION

**PhD examination of Anaesthesiology and Intensive Care Medicine.** Title of dissertation: lingstittel: Brain effects of ketamine. Experimental studies on cerebral haemodynamics, metabolism, electrocortical activity and pharmacokinetics. Main supervisor: Kenneth Messeter. *Lund University.* Malmö 28<sup>th</sup> November 1992.

## 3. SENIOR LECTURER

**Senior lecturer** of Anaesthesiology and Intensive Care Medicine. *Lund University.* Lund 12<sup>th</sup> September 2001 [Dnr M:E 33 446/01].

## 4. CLINICAL EXAMINATIONS

**Medical licensure.** *Socialstyrelsen.* Stockholm 2<sup>th</sup> May 1983.

**Specialist** of Anaesthesiology and Intensive Care Medicine. *Socialstyrelsen.* Stockholm 30 april 1987.

**European Diplomate of Anaesthesiology and Intensive Care Medicine** (EDAIC). *European Society of Anaesthesiology.* London 11<sup>th</sup> June 1993.

## 5. PRESENT POSITIONS

**Professor** (academic chair) of Anaesthesiology and Intensive Care Medicine. *Lund University.* Lund/Malmö sedan 17 februari 2011 [Dnr PA 2010/1747].

**Excellence of Teaching Practice (ETP)** and member of the Academy of Teaching at the Faculty of Medicine. *Lund University.* Lund since 1<sup>st</sup> March 2012 [Dnr PA 2011/539].

**Inspector** at the Blekingska Students' Club. *Lund University.* Lund since 1<sup>st</sup> June 2011.

**Senior consultant** of Anaesthesiology and Intensive Care Medicine. *Skåne University Hospital.* Malmö since 1<sup>st</sup> January 1993.

## 6. FORMER POSITIONS

**Associate professor** of Anaesthesiology and Intensive Care Medicine. *Lund University.* Lund and Malmö from 1<sup>st</sup> November 2000 until 16<sup>th</sup> February 2011 [Dnr M:E 321 492/06].

**Consultant** of Anaesthesiology and Intensive Care Medicine. *Skåne University Hospital.* Malmö from 30<sup>th</sup> April 1987 until 1<sup>st</sup> January 1993.

**Graduate** of Anaesthesiology and Intensive Care Medicine. *Skåne University Hospital.* Malmö from 6<sup>th</sup> November 1983 until 30<sup>th</sup> April 1987.

**Registrar** of Anaesthesiology and Intensive Care Medicine. *Helsingborg Hospital.* Helsingborg from 1<sup>st</sup> May until 5<sup>th</sup> November 1983.

**Internship.** *Helsingborg Hospital.* Helsingborg from 1st Augusti 1981 until 30<sup>th</sup> April 1983.

**Appointed registrar** of Internal Medicine and of Orthopaedic Surgery. *Karlskrona Central Hospital.* Karlskrona from 1<sup>st</sup> June 1979 until 30<sup>th</sup> May 1981.

## 7. SOME OTHER ACADEMIC AND/OR CLINICAL QUALIFICATIONS

**Project director** for planning of new operation and postoperative wards of otorhinolaryngology, oral, and plastic surgery. *Skåne University Hospital.* Malmö 1995-2000.

**Project director** for development of perioperative recording system. *Skåne University Hospital.* Malmö 1995-1996.

**Project director** for development of perioperative recording system within the nine-hospital Scania Region. *Scania Region.* Malmö 2005-2006.

**Head of undergraduate teaching** in Anaesthesiology and Intensive Care Medicine. *Lund University.* Malmö since 2000.

**Akademic position** in the Regional Strategic Committee of Anaesthesiologi och Intensive Care Medicine (SPESAK). *Scania Region*. Lund since 1<sup>st</sup> November 2000.

**Member of the Committee for Equality** at the Faculty of Medicine. *Lund University*. Lund since 2006.

**Director at semester level** of 8<sup>th</sup> semester undergraduate course of Medical School. *Lund University*. Malmö since 2007

**Course leader of eligible courses** (7.5 ECTS) of Applied Respiratory and Circulatory Physiology for undergraduate 9<sup>th</sup> term medical students. *Lund University*. Malmö 2008-2011.

**Director at Advanced Level** of undergraduate medical teaching (6<sup>th</sup>-11<sup>th</sup> semester) in Malmö. *Lund University*. Malmö since 2009.

**Main responsible of national scientific programmes** at the annual congresses of the Swedish Society of Anaesthesiology and Intensive Care Medicine (SFAI) in Malmö 1998 and 2004.

**Co-responsible (as Scientific Secretary) of national scientific programmes** at the annual congresses of the Swedish Society of Anaesthesiology and Intensive Care Medicine (SFAI) i in Uppsala 2008, Umeå 2009, Halmstad 2010, Kalmar 2011 and Östersund/Åre 2013.

**Organizer and main responsible of three-day postgraduate course** of Anaesthesiology and Intensive Care Medicine on difficult airway management. *Hven* 2001, 2003, 2005, 2007 och 2009.

**Faculty Opponent** at four PhD dissertations in Anaesthesiology and Intensive Care Medicine. *Linköping* 2009, *Örebro* 2013, *Stockholm* 2015, and *Gothenburg* 2016.

**Chairman** of more than 20 PhD dissertations of Anaesthesiology and Intensive Care Medicine. *Lund University*. Lund/Malmö since 2001.

**Member of Boards of Scientific Approval** at more than 20 PhD dissertations since 2001.

**Faculty Opponent** at more than 20 scientific PhD half-time seminars since 2001.

**Referee missions** at numerous scientific journals (i. a. *Acta Anaesthesiol Scand*, *BMC Anesthesiology*, *Curr Pediatr Rev*, *Eur J Anaesthesiol*, *Pediatr Anesth*, *Lancet*, *Open Plast Reconstr Surg J*)

**Approver of new academic positions** at Linköping University and Gothenburg University.

**Secretary and member of the Society of ENT and Plastic Surgery within** i SFAI:s delförening för anestesi och intensivvård vid ÖNH- och plastikkirurgi (SFAI-ÖP) 1998-2014.

**Scientific Secretary** of the Swedish Society of Anaesthesiology and Intensive Care Medicine (SFAI) 2007-2010.

**Member and Swedish representative** in the Union Européenne des Médecins Specialists (UEMS), Section and Board of Anaesthesiology (EBA), since 2009.

**Chairman** of the Society of Teaching and Research (SFAI-UF) within the Swedish Society of Anaesthesiology and Intensive Care Medicine 2010-2016.

**Chairman** of the Swedish Society of Medical Teaching (SFMU) 2015-2018.

**Member and Swedish representative** in the European Society of Anaesthesiology Council sedan 2017.

**Scientific main supervisor** of eight, and co-supervisor of two, examined PhD students, between 2003 and 2018. *Lund University*. Malmö since 2001.

**Scientific main supervisor** of another six PhD students under ongoing research training. *Lund University*. Malmö since 2013.

**Scientific main supervisor** of more than 50 individual master reports (15-30 ECTS) by undergraduate medical students at the 10<sup>th</sup> semester. *Lund University*. Lund and Malmö since 2001.

**Scientific expanded master report (60 ECTS)** of Emergency Medicine. *Lund University*. Lund 1982.

More than 100 **scientific abstracts/posters**.

Approximately 60 **text book chapters and reports** on teaching, research and development.

**Chief Editor** of the largest Scandinavian text book of Anaesthesiology (*Anestesi, Liber, Stockholm*, 2016). More than 70 **scientific papers**.

## SCIENTIFIC PUBLICATIONS

1. Åkeson J, Boström PÅ, Gustafson C, Rosberg B. Serum CK-MB is useful in diagnosis of acute myocardial infarction after total hip arthroplasty. *Acta Anaesthesiol Scand* 1989; **33**: 435-8.
2. Åkeson J, Nilsson F, Ryding E, Messeter K. A porcine model for sequential assessments of cerebral haemodynamics and metabolism. *Acta Anaesthesiol Scand* 1992; **36**: 419-26.

3. Björkman S, Åkeson J, Nilsson F, Messeter K, Roth B. Ketamine and midazolam decrease cerebral blood flow and consequently their own rate of transport to the brain - an application of mass-balance pharmacokinetics with a changing regional blood flow. *J Pharmacokin Biopharmaceut* 1992; **2Q**: 637-52.
4. Åkeson J, Messeter K, Rosén I, Björkman S. Cerebral haemodynamic and electrocortical CO<sub>2</sub> reactivity in pigs anaesthetized with fentanyl, nitrous oxide and pancuronium. *Acta Anaesthesiol Scand* 1993; **37**: 85-91.
5. Åkeson J, Björkman S, Messeter K, Rosén I, Helfer M. Cerebral pharmacodynamics of anaesthetic and subanaesthetic doses of ketamine in the normoventilated pig. *Acta Anaesthesiol Scand* 1993; **37**: 211-18.
6. Åkeson J, Björkman S, Messeter K, Rosén I. Low-dose midazolam antagonizes cerebral metabolic stimulation by ketamine in the pig. *Acta Anaesthesiol Scand* 1993; **37**: 525-31.
7. Björkman S, Nilsson F, Åkeson J, Messeter K, Rosén I. The effect of thiopental on cerebral blood flow, and its relation to plasma concentration, during simulated induction of anaesthesia in a porcine model. *Acta Anaesthesiol Scand* 1994; **38**: 473-8.
8. Nilsson F, Åkeson J, Messeter K, Ryding E, Rosén I, Nordström C-H. A porcine model for evaluation of cerebral haemodynamics and metabolism during increased intracranial pressure. *Acta Anaesthesiol Scand* 1995; **39**: 827-34.
9. Björkman S, Åkeson J, Helfer M, Fyge Å, Gustafsson L. Cerebral uptake of morphine in the pig calculated from arteriovenous plasma concentration gradients: An alternative to tissue microdialysis. *Life Sci* 1995; **57**: 2335-45.
10. Holmström A, Åkeson J. Fibreoptic laryngotracheoscopy via the laryngeal mask airway in children. *Acta Anaesthesiol Scand* 1996; **41**: 239-41.
11. Kvorning Ternov N, Nilsson M, Löfberg L, Algotsson L, Åkeson J. Acupuncture for pain relief during childbirth. *Acupunct Electrother Res Internat J* 1998; **23**: 19-26.
12. Kvorning Ternov N, Buchhave P, Svensson G, Åkeson J. Acupuncture during childbirth reduces use of traditional analgesia with no major adverse effects. *Am J Acupunct* 1998; **26**: 233-41.
13. Schmidt A, Björkman S, Åkeson J. Preoperative rectal diclofenac versus paracetamol for tonsillectomy: effects on pain and blood loss. *Acta Anaesthesiol Scand* 2001; **45**: 48-52.
14. Liljeroth E, Grauers A, Åkeson J. Pain on injection of propofol with or without infusion of carrier fluid. *Acta Anaesthesiol Scand* 2001; **45**: 839-41.
15. Schmidt A, Åkeson J. Practice and knowledge of cricoid pressure in southern Sweden. *Acta Anaesthesiol Scand* 2001; **45**: 1210-4 .
16. Kvorning Ternov N, Grennert L, Åberg A, Algotsson L, Åkeson J. Acupuncture for lower back and pelvic pain in late pregnancy: A retrospective report on 167 consecutive cases. *Pain Med* 2001; **2**: 204-7.
17. Grauers A, Liljeroth E, Åkeson J. Propofol infusion rate does not affect local pain on injection. *Acta Anaesthesiol Scand* 2002; **46**: 361-3.
18. Holmström A, Åkeson J. Cerebral blood flow at 0.5 and 1.0 minimal alveolar concentrations of desflurane or sevoflurane compared with isoflurane in normoventilated pigs. *Journal of Neurosurgical Anesthesiology* 2003; **15**: 90-7.
19. Kvorning N, Christiansson C, Beskow A, Bratt O, Åkeson J. Acupuncture fails to reduce but increases anaesthetic gas required to prevent movement in response to surgical incision. *Acta Anaesthesiol Scand* 2003; **47**: 818-22.
20. Kvorning N, Christiansson C, Åkeson J. Acupuncture facilitates neuromuscular and oculomotor responses to skin incision with no influence on auditory evoked potentials under sevoflurane anaesthesia. *Acta Anaesthesiol Scand* 2003; **47**: 1073-8.
21. Schmidt A, Ryding E, Åkeson J. Racemic ketamine does not abolish cerebrovascular autoregulation in the pig. *Acta Anaesthesiol Scand* 2003; **47**: 569-75.
22. Kvorning N, Holmberg C, Grennert L, Åberg A, Åkeson J. Acupuncture relieves pelvic and low-back pain in late pregnancy. *Acta Obstet Gynecol Scand* 2004; **83**: 246-50.
23. Holmström A, Åkeson J. Desflurane increases intracranial pressure more and sevoflurane less than isoflurane in pigs subjected to intracranial hypertension. *J Neurosurg Anesthesiol* 2004; **16**: 136-43.
24. Holmström A, Rosén I, Åkeson J. Desflurane results in higher cerebral blood flow than sevoflurane or isoflurane at hypocapnia in pigs. *Acta Anaesthesiol Scand* 2004; **48**: 400-4.

25. Åkeson J, Didriksson I. Convulsions on anaesthetic induction with sevoflurane in young children. *Acta Anaesthesiol Scand* 2004; 48: 405-7.
26. Malmgren W, Åkeson J. Similar excitation after sevoflurane anaesthesia in young children given rectal morphine or midazolam for premedication. *Acta Anaesthesiol Scand* 2004; 48: 1277-82.
27. Holmström A, Åkeson J. Sevoflurane induces less cerebral vasodilation than isoflurane at the same A-line® autoregressive index level. *Acta Anaesthesiol Scand* 2005; 49: 16-22.
28. Liljeroth E, Åkeson J. Less local pain on intravenous infusion of a new propofol emulsion. *Acta Anaesthesiol Scand* 2005; 49: 248-51.
29. Schmidt A, Christensson A, Åkeson J. Intensive care treatment of severe mixed metabolic acidosis. *Acta Anaesthesiol Scand* 2005; 49: 411-4.
30. Holmström A, Åkeson J. Desflurane induces more cerebral vasodilation than isoflurane at the same A-line® autoregressive index level. *Acta Anaesthesiol Scand* 2005; 49: 754-8.
31. Schmidt A, Øye I, Åkeson J. Cerebral physiological responses to bolus injection of racemic, S- or R-ketamine in the pig. *Acta Anaesthesiol Scand* 2005; 49: 1436-42.
32. Andersson AL, Åkeson J, Dahlin L. Efficacy and safety of axillary brachial plexus block for surgery on the hand. *Scandinavian J Plast Reconstr Surg Hand Surg* 2006; 40: 225-9.
33. Liljeroth E, Karlsson A, Lagerkranser M, Åkeson J. Sustained intravascular exposure to propofol does not prolong pain at the site of injection. *Acta Anaesthesiol Scand* 2007; 51: 456-9.
34. Liljeroth E, Karlsson A, Lagerkranser M, Åkeson J. Low-dose propofol reduces the incidence of moderate to severe local pain induced by the main dose. *Acta Anaesthesiol Scand* 2007; 51: 460-3.
35. Novak H, Karlsland Åkeson P, Åkeson J. Sedation with ketamine and low-dose midazolam for short-term procedures requiring pharyngeal manipulation in young children. *Pediatr Anaesth* 2008; 18: 48-54.
36. Pikwer A, Bååth L, Davidson B, Perstoft I, Åkeson J. The incidence and risk of central venous catheter malpositioning – a prospective cohort study in 1 619 patients. *Anaesth Intens Care* 2008; 36: 30-7.
37. Schmidt A, Øye I, Åkeson J. Racemic, S(+)- and R(-)-ketamine do not increase elevated intracranial pressure. *Acta Anaesthesiol Scand* 2008; 52: 1124-30.
38. Pikwer A, Bååth L, Perstoft I, Davidson B, Åkeson J. Routine chest x-ray is not required after low-risk central venous cannulation. *Acta Anaesthesiol Scand* 2009; 53: 1145-52.
39. Åkeson J, Berntman L, Messeter K. Cerebral haemodynamic and metabolic effects of hypnotics and analgesics. *Ann Anestésiol Réanim* 1992; 11: 682-4.
40. Åkeson J. Pain on injection of propofol – why bother? *Acta Anaesthesiol Scand* 2008; 52: 591-3.
41. Åkeson J, Karlson-Stiber C, Fredriksson B, Wattsgård C, Lundholm B. Aspiration av alifatiska kolväten kan ge livshotande lungpåverkan hos småbarn. *Läkartidningen* 1990; 87: 4420-3.
42. Wenzelberg C, Weis M, Åkeson J. Svenska medicinstudenter inför läkarexamen: Allmän-medicin samt barn- och ungdomsmedicin lockar mest. *Läkartidningen* 2007; 104: 322-5.
43. Åkeson J. Pain on injection of propofol – why bother? *Acta Anaesthesiol Scand* 2008; 52: 591-3.
44. Pikwer A, Bååth L, Perstoft I, Davidson B, Åkeson J. Routine chest x-ray is not required after a low-risk central venous cannulation. *Acta Anaesthesiol Scand* 2009; 53: 1145-52.
45. Pikwer A, Acosta S, Kölbl T, Malina M, Sonesson B, Åkeson J. Management of inadvertent arterial catheterisation associated with central venous access procedures. *Eur J Vasc Endovasc Surg* 2009; 38: 707-14.
46. Kvorning N, Åkeson J. Plasma adrenaline increases in anesthetized patients given electro-acupuncture before surgery. *Pain Med* 2010; 11: 1126-31.
47. Pikwer A, Acosta S, Kölbl T, Åkeson J. Endovascular intervention for central venous cannulation in patients with vascular occlusion after previous catheterization. *J Vasc Access* 2010; 11: 323-8.
48. Kuoppala M, Åkeson J, Svensson P, Lindblad B, Acosta S. Risk factors for haemorrhage during local intra-arterial thrombolysis for lower limb ischaemia. *J Thromb Thrombolys* 2011; 31: 226-32.
49. Krite Svanberg E, Wollmer P, Andersson-Engels S, Åkeson J. Physiological influence of basic perturbations assessed by non-invasive optical techniques in humans. *Appl Physiol Nutr Metab* 2011; 36: 946-57.
50. Pikwer A, Åkeson J, Lindgren S. Central venous cannulation by central or peripheral routes – review of complications. *Anaesthesia* 2012; 67: 65-71.

51. Pikwer A, Bergenzaun L, Sterner G, Krite Svanberg E, **Åkeson J**. Fluid balance monitoring by cuff-occluded rate of rise of peripheral venous pressure in haemodialysis patients. *Anaesthesia* 2012; **67**: 894-8.
52. Bunkenborg G, Samuelson K, **Åkeson J**, Poulsen I. Impact of professionalism in nursing on in-hospital bedside monitoring practice. *J Adv Nurs* 2013; **69**: 1466-77.
53. Lindgren S, Pikwer A, Ricksten SE, **Åkeson J**. Survey of central venous catheterization practice in Sweden. *Acta Anaesthesiol Scand* 2013; **57**: 1237-44.
54. Ludvigsson A, Wernberg E, Pikwer A, **Åkeson J**. Morning conferences for anaesthesiologists – to be or not to be? *Acta Anaesthesiol Scand* 2013; **57**: 971-7.
55. Bunkenborg G, Samuelson K, Poulsen I, Ladelund S, **Åkeson J**. Lower incidence of unexpected in-hospital death after interprofessional implementation of a bedside track-and-trigger system. *Resuscitation* 2014; **85**: 424-30. Awarded, by Lund University Faculty of Medicine, *Article of the Month* in January 2014 ([http://www.med.lu.se/lmfm/news\\_archive/article\\_of\\_the\\_month\\_january\\_issue\\_2014](http://www.med.lu.se/lmfm/news_archive/article_of_the_month_january_issue_2014)).
56. Frykholm P, Pikwer A, Hammarskjöld F, Larsson AT, Lindgren S, Lindwall R, Taxbro K, Öberg F, Acosta S, **Åkeson J**. Clinical guidelines on central venous catheterisation. *Acta Anaesthesiol Scand* 2014; **58**: 508–524.
57. Ellbrant J, **Åkeson J**, Karlsland Åkeson P. Pediatric emergency department management benefits from appropriate early redirection of non-urgent visits. *Pediat Emerg Care* 2015; **31**: 95-100.
58. Kuoppala M, **Åkeson J**, Acosta S. Outcome after thrombolysis for occluded endoprosthesis, bypasses and native arteries in patients with lower limb ischemia. *Thromb Res* 2014; **134**: 23-8.
59. Masson H, Moska T, Rehn A, Janjic L, **Åkeson J**. Clinical comparison of lightwand-guided versus conventional endotracheal intubation. *Asians J Pharm Nurs Med Sci* 2014; **2**: 35-9.
60. Grip O, Kuoppala M, Acosta S, Wanhainen A, **Åkeson J**, Björck M. Outcome and complications after intra-arterial thrombolysis for lower limb ischaemia, with or without continuous heparin infusion. *Br J Surg* 2014; **101**: 1105-12.
61. Pikwer A, Palmér K, **Åkeson J**. Extracorporeal membrane oxygenation for adult respiratory distress syndrome after near-drowning. *J Clin Trials* 2014; **4**:3: 1-2.
62. Bibic A, Knutsson L, Schmidt A, Henningsson E, Månsson S, Abul-Kasim K, **Åkeson J**, Günther M, Ståhlberg F, Wirestam R. Measurement of vascular water transport in human subjects using time-resolved pulsed arterial spin labelling. *NMR Biomed* 2015; **28**: 1059-68.
63. Bunkenborg G, Poulsen I, Samuelson K, Ladelund S, **Åkeson J**. Mandatory early warning scoring – implementation evaluated with a mixed-methods approach. *Appl Nurs Res* 2016; **29**: 168-76.
64. Persson AKM, Dabo Pettersson F, Dyrehag LE, **Åkeson J**. Prediction of postoperative pain from assessment of pain induced by venous cannulation and propofol infusion. *Acta Anaesthesiol Scand* 2016; **60**: 166-76.
65. Merisson E, Mattsson N, Zetterberg H, Blennow K, Pikwer A, Acosta S, **Åkeson J**. Total-tau and neurofilament light in CSF reflect spinal cord ischaemia after endovascular aortic repair. *Neurochem Internat* 2016; **93**: 1-5.
66. Krite Svanberg E, Lundin P, Larsson M, **Åkeson J**, Svanberg K, Svanberg S, Andersson-Engels S, Fellman V. Diode laser spectroscopy for non-invasive monitoring of oxygen in the lungs of newborn infants. *Pediat Res* 2016; **79**: 621-8.
67. Whitaker D, Brattebø G, Trenkler S, Vanags I, Petrini F, Aykac Z, Longrois D, Loer SA, Gaszynski T, Sipylaite J, Copaciu E, Cerny V, **Åkeson J**, Mellin-Olsen J, Abela C, Stecher A, Kozek-Langenecker S, Rätsep I; European Section and Board of Anaesthesiology of the UEMS. The European Board of Anaesthesiology recommendations for safe medication practice: First update. *Eur J Anaesthesiol* 2017; **34**: 4-7.
68. Norin H, Pikwer A, Fellert F, **Åkeson J**. Internal jugular dimensions and common carotid overlapping assessed in a cross-sectional study by ultrasonography at three neck levels in healthy volunteers. *J Vasc Access* 2017; **18**: 69-72.
69. Persson AK, Dyrehag LE, **Åkeson J**. Prediction of postoperative pain from electrical pain thresholds after laparoscopic cholecystectomy. *Clin J Pain* 2017; **33**: 126-31.
70. Persson AK, Fabo Petersson F, **Åkeson J**. Single nucleotide polymorphisms associated with pain sensitivity after laparoscopic cholecystectomy. *Pain Med* 2018; **19**: 1271-9.

71. Hinkelbein J, Lamperti M, **Åkeson J** et al. Evidence-based guidelines on adult procedural sedation and analgesia. *Eur J Anaesthesiol* 2018; 35: 6--24.
72. Ellbrant J, **Åkeson J**, Eckner J, Karlsland Åkeson P. Influence of social characteristics on use of paediatric emergency care in Sweden - a questionnaire based study. *BMC Emerg Med* 2018; 18: 59.
73. Persson AK, **Åkeson J**. Prediction of acute postoperative pain from assessment of pain associated with venous cannulation. *Pain Practice* 2018; Sep 30, I.
74. Ellbrant J, **Åkeson J**, Karlsland Åkeson P. Influence of awareness and availability of medical alternatives on parents seeking paediatric emergency care. *Scand J Publ Health* 2018; 46: 456-62.
75. Sellgren Engskov A, Troilius Rubin A, **Åkeson J**. Single and double pain responses to individually titrated ultra-short laser stimulation in humans. *BMC Anesthesiology* 2019; 1: 29.
76. Danielsson EJD, Lejbman I, **Åkeson J**. Fluid deficits during prolonged overnight fasting in young healthy adults. *Acta Anaesthesiol Scand* 2019; 63: 195-99.
77. Persson AKM, **Åkeson J**. Reply to: Confounding factors in predicting acute post-surgical pain. *Pain Practice* 2019; 1. Letter.
78. Bunkenborg G, Poulsen I, Samuelson K, Ladelund S, **Åkeson J**. Bedside vital parameters that indicate early deterioration. *Int J Health Care Quality Ass* 2019; 32: 262-272.